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Annual Report
OF THE
Medical Officer of Health
FOR THE YEAR
1946

including the
Report of the Chief Sanitary Inspector and
the Meteorological Report



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Borough of Weston-super-Mare

PUBLIC HEALTH COMMITTEE, 1945-46.

Chairman : Alderman W. B. CRAIG (Mayor).

Vice-Chairman : Councillor MRS. M. E. LUCAS.

Alderman B. T. BUTTER	Councillor A. J. HEYBYRNE
Alderman P. E. CULLING	Councillor A. M. CRIDDLE
Councillor Mrs. M. BROWN	Councillor R. H. W. WARNER

Maternity and Child Welfare Committee, 1945-46.

Chairman : Councillor Mrs. M. BROWN.

All Members of the Public Health Committee, with the following co-opted ladies :—

MRS. A. B. MACFARLANE	MRS. E. G. HEYBYRNE
(Vice-Chairman)	MRS. J. M. BROWN
MRS. F. G. NEWBERRY	

DEPARTMENT OF PUBLIC HEALTH.

MEDICAL OFFICER OF HEALTH, SUPERINTENDENT OF ISOLATION HOSPITAL AND BOROUGH MATERNITY HOSPITAL AND BOROUGH METEOROLOGIST.

CYRIL G. EASTWOOD, M.D., Ch.B., B.Sc., M.R.C.S., L.R.C.P., D.P.H.

DEPUTY MEDICAL OFFICER :

J. M. MACRAE, M.D., Ch.B., D.P.H. F.R.F.P.S.
(From 22nd July, 1946)

CHIEF SANITARY INSPECTOR :

I. A. STEPHENSON, cert. R.S.I. & S.I.J.B., MEAT & FOODS
cert.R.S.I.

ABATTOIR SUPERINTENDENT AND SANITARY INSPECTOR :

W. W. WHITE, cert.R.S.I. & S.I.J.B. EXAM., MEAT & FOODS
cert.R.S.I., cert. INST. OF PUBLIC CLEANSING (salvage), cert.
LONDON CITY & GUILDS (Plumbing), cert. RUTHERFORD
COLLEGE (Building Construction).

SANITARY INSPECTORS :

C. E. URCH, cert.R.S.I., MEAT & FOODS cert.R.S.I.

G. M. DOUGLAS, cert. R.S.A.S., cert. SANITARY SCIENCE,
cert. BUILDING CONSTRUCTION, cert. MEAT & FOODS.

SENIOR HEALTH VISITOR :

MISS E. SWIFT, S.R.N., S.C.M., H.V.Cert.

HEALTH VISITORS :

MISS G. M. HARVEY, S.R.N., S.C.M., H.V.Cert.

MISS M. HEAFEY, S.R.N., S.C.M., H.V.Cert.
(Seconded to U.N.R.R.A.).

MISS B. M. WEBBER, S.C.M., L.C.A.T.M.

MISS E. MOTE, S.R.N., S.C.M., R.F.N., H.V.Cert.

MATRONS :

Isolation Hospital : MISS W. M. DAVIS, S.R.N., R.F.N.

Borough Maternity Hospital : MISS I. M. GOVIER, S.R.N., S.C.M.

Glenelg Sick Bay and Emergency Isolation Hospital :
MRS. M. C. McCLELLAND, S.R.N.

Neva Road Nursery : MRS. M. M. MILLER, S.R.N.

SUPERINTENDENT OF NURSERIES : MISS M. A. O'BRIEN.

CHIEF CLERK : MISS D. B. POWELL.

SECRETARY TO THE MEDICAL OFFICER OF HEALTH :

MISS M. GROOM

CLERICAL STAFF : 5

NURSING STAFF : 50.

MISCELLANEOUS STAFF : 35.

THE DEPARTMENT OF PUBLIC HEALTH,
THE TOWN HALL,
WESTON-SUPER-MARE.

TO THE MAYOR, ALDERMEN AND COUNCILLORS OF
THE BOROUGH OF WESTON-SUPER-MARE.

MR. MAYOR, LADIES AND GENTLEMEN,

I have pleasure in submitting my sixth annual report. I had hoped that shortly after the end of the war it would be possible to revert to the normal practice of presenting detailed reports of the work of the Department, and possibly a comprehensive survey report covering the war years. The paper shortage, however, continues to be acute and therefore this report, like my previous ones, is in a very abbreviated form, giving the more important statistics but not describing in great detail the many different kinds of activity which my department undertakes.

I am, Mr. Mayor, Ladies and Gentlemen,

Your obedient servant,

CYRIL G. EASTWOOD,
Medical Officer of Health.

Statistical Summary, 1946.

AREA (including foreshore)	...	...	...	7,006 Acres
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POPULATION :

1931 census	...	...	...	31,706
Registrar-General's estimate for 1946	...	...	...	38,890

LIVE BIRTHS :	Male.	Female.	Total.
Legitimate	269	306	575
Illegitimate	21	15	36
	290	321	611

BIRTH RATE : 15.7

STILL BIRTHS :	Male.	Female.	Total.
Legitimate	6	6	12
Illegitimate	1	1	2
	7	7	14

STILL BIRTH RATE (per 1,000 total births) : 22.4

DEATHS :	Male.	Female.	Total.
	261	301	562
DEATH RATE : 14·5.			

PUERPERAL DEATHS :

From puerperal sepsis	...	...	...	—
From other maternal causes	...	...	...	—

INFANT MORTALITY (Deaths of infants under one year of age) :

Rate for all infants per 1,000 live births	...	...	40·9
Rate for all legitimate infants per 1,000 legitimate live births	...	...	41·7
Rate for all illegitimate infants per 1,000 illegitimate live births	...	...	27·8

OTHER DEATHS :

Deaths from Cancer (all ages)	...	...	77
Deaths from Measles (all ages)	...	...	—
Deaths from Whooping Cough (all ages)	...	...	—
Deaths from Diarrhoea (under 2 years)	...	...	—

I. Vital Statistics.

REGISTERED BIRTHS.—After allowing for inward and outward transfers, the Registrar-General credited the Borough with 611 live births for 1946, 290 were males and 321 females. Of these 36 were illegitimate (21 males and 15 females). The registered number of still births was 14 (7 males and 7 females) of which number 1 male and 1 female were illegitimate.

The birth rate for 1946 was 15·7 per 1,000 of the population, which is lower than for last year (16·5) and lower than for the country as a whole (19·1).

DEATHS.—545 deaths were registered as having occurred in the Borough during the year. After deducting the deaths of 68 non-residents and adding the deaths of 85 normal residents which took place outside the Borough, the net total comes to 562 Weston deaths. Of these, 261 were males and 301 females.

The following tables show the causes of death and the sex and age distribution of deaths :—

CAUSES OF DEATH.					1946.	
					Males.	Females.
ALL CAUSES Total 562					261	301
1	Typhoid and para-typhoid fevers	...			—	—
2	Cerebro-spinal fever	...	...	...	—	—
3	Scarlet fever	...	...	...	—	—
4	Whooping cough	...	...	...	—	—
5	Diphtheria	...	...	...	—	—
6	Tuberculosis of respiratory system	...			13	6
7	Other forms of tuberculosis	...	...		—	1
8	Syphilitic diseases	...	...	...	1	—
9	Influenza	...	...	...	1	1
10	Measles	...	...	...	—	—
11	Acute poliomyelitis and polio-encephalitis	...	...	...	—	—
12	Acute infantile encephalitis	...	...		—	—
13	Cancer of buccal cavity and œsophagus (M.), uterus (F.)	...	...	...	3	7
14	Cancer of stomach and duodenum	...			4	7
15	Cancer of breast	...	...	...	—	13
16	Cancer of all other sites	...	...	...	21	22
17	Diabetes	...	...	...	—	2
18	Intra-cranial vascular lesions	...	...		39	45
19	Heart disease	...	...	...	70	104
20	Other diseases of the circulatory system...				6	4
21	Bronchitis	...	...	...	19	7
22	Pneumonia	...	...	...	9	7
23	Other respiratory diseases	...	...		5	3
24	Ulcer of stomach or duodenum	...			7	1
25	Diarrhœa under 2 years	...	...		—	—
26	Appendicitis	...	...	...	1	1
27	Other digestive diseases	...	...	...	6	7
28	Nephritis	...	...	...	10	7
29	Puerperal and post-abortion sepsis	...			—	—
30	Other maternal causes	...	...	...	—	—
31	Premature births	...	...	...	7	4
32	Congenital malformations, birth injuries, infantile diseases	...	...	...	4	9
33	Suicide	...	...	...	3	3
34	Road traffic accidents	...	...	...	4	1
35	Other violent causes	...	...	...	4	12
36	All other causes	...	...	...	24	27
Special causes (included in No. 36 above)—						
	Small-pox	...	...	...	—	—
Deaths of Infants under 1 year						
	Total...	...			12	13
	Legitimate	...			11	13
	Illegitimate	...			1	—

SEX AND AGE DISTRIBUTION OF DEATHS, 1946.

Ages at Death in Years.			Males	Females.	Total.
Under 1	...	...	11	13	24
1 to 9	...	...	1	1	2
10 to 24	...	...	3	4	7
25 to 44	...	...	24	9	33
45 to 64	...	...	57	49	106
65 to 69	...	...	31	36	67
			—127	—112	—239
70 to 74	...	...	34	45	79
75 to 79	...	...	41	42	83
80 to 84	...	...	28	52	80
85 to 89	...	...	24	30	54
90 to 94	...	...	3	19	22
95 to 99	...	...	1	2	3
			—131	— 190	—321
			<u>258</u>	<u>302</u>	<u>560*</u>

INFANT MORTALITY.—The number of deaths of infants under 1 year of age registered during the year, was 25 (12 male and 13 female). These 25 deaths represent an infant mortality rate of 40·9 per thousand live births.

INQUESTS.—Inquests held by the Coroner in the Borough during the year numbered 44 of which 30 were upon residents of Weston-super-Mare and 14 upon non-residents. The causes of death in respect of residents are set out in the following table :—

Causes of Death.			Males.	Females.	Total.
Natural Causes	...	...	7	3	10
Accidents : Falls	...	...	1	5	6
Falls from height			—	—	—
By moving machinery			—	—	—
Drowning	...		—	—	—
Strangulation	...		—	—	—
Accidental ignition					
of clothing	...		—	2	2
Asphyxia	...		1	1	2
Poisoning : Coal gas	...	...	—	2	2
Motor car fumes			—	—	—
Arsenic	...	...	—	—	—
During Operations	...	...	—	—	—
In Motor Vehicles	...	...	—	—	—
By Motor Vehicles	...	...	2	1	3
Suicide : Drowning	...	...	—	—	—
Hanging	...	...	—	—	—
Poisoning : Coal gas			1	1	2
Poisoning : Ammonia			—	1	1
„ Barbituric			1	—	1
Jumping from height			—	1	1
Found Drowned	...	...	—	—	—
			<u>13</u>	<u>17</u>	<u>30</u>

*The total deaths (560) given in this table differs by 2 from the Registrar-General's figure on page 4 as the Registrar-General has included two deaths not shown in the local table.

II. General Health Services, etc.

The general services of the Department of Public Health were maintained throughout the year and various alterations and additions are noted under the appropriate headings throughout this Report. One or two matters follow in this section, however, which cannot be dealt with appropriately elsewhere.

HEALTH EDUCATION.—The display of posters and the distribution of leaflets on health educational matters continued throughout the year, but our efforts at instructing the public were extended by two major projects described below.

An exhibition of sound films dealing with the care of children's teeth, eyes and ears, were shown to mothers attending the Maternity and Child Welfare clinics on April 30th, May 1st and 2nd.

A Health Exhibition was held in the Town Hall from October 12th to 18th. It was open daily from 3 to 5 and 6 to 8.

The Exhibition was divided into ten different sections, including Dental Health, Maternity and Child Welfare, books and literature on health matters in general, etc. There was a section showing the work of the Department of Public Health, control of rats and mice, pasteurization of milk, model cowsheds and dairies, etc. Cookery demonstrations were given by the Ministry of Food, and displays of Physical Culture and Folk Dancing by the Women's League of Health and Beauty and the Central Council for Physical Recreation.

Attendance at the Exhibition was estimated to be between two and three thousand.

Talks on food and housing matters were given by various members of the Department during the year to youth organisations and similar bodies.

CLEANSING STATION.—The problem of personal infestation is not serious in this Borough, but the Cleansing Station at the Isolation Hospital remains in operation. The numbers have declined as compared with the early war years, and it has not been necessary on any occasion to use compulsory powers to secure the cleansing of persons requiring it.

WATER SUPPLY.—At the request of the Minister of Health, some notes upon the water supply are included in this Report.

The supply during the year has been satisfactory both in regard to quality and quantity. Bacteriological Examinations have been made each week by qualified Public Analysts

and on every occasion the condition of the water has been found to be entirely satisfactory. Weekly analyses have also been made of the Banwell Spring and occasional analyses of the old Weston Well which is occasionally drawn upon, at the time of peak of demand, to augment the supply. The few wells in use for drinking purposes are also sampled and random samples are taken from houses in the town. Altogether 128 analyses were made during the year.

The water supplied to the consumers is of a high standard of purity, and the Chloramine system of treatment, carried out at the Waterworks in order to ensure this condition, has been efficiently maintained. The water appears to have no plumbo-solvent action.

Almost all the houses in the Borough now have a piped supply. No houses are supplied by means of stand-pipes.

The following is a typical chemical analysis (sample taken on July 24th):—

(Values in parts per 100,000.)				
Reaction (pH value)	...	...	...	7.5
Chlorine (as chlorides)	...	...	...	1.75=NaCl 2.88
Free Chlorine	...	...	...	trace
Sulphuric Acid (SO) ₃	...	...	...	2.84
Nitric Acid (N ₂ O ₅)	...	...	...	0.77
Nitrites	...	...	...	absent
Free Ammonia	...	...	...	0.001
Albuminoid Ammonia	...	...	...	0.011
Oxygen absorbed from Permanganate at 80°F.				
in 4 hours	...	...	...	0.002
in 15 minutes	...	...	...	0.001
Total Solids dried at 105°C.	...	...	...	30.9
Loss on ignition	...	...	...	5.2
Appearance of solids on heating	...	...	...	Slight charring
Hardness—total	...	...	...	22.0
temporary	...	...	...	19.6
permanent	...	...	...	2.4
Heavy metals	...	...	...	Absent (trace of iron)

MISCELLANEOUS.—The following statistics show the work carried out at the various institutions and centres attached to the Department, excluding those which are noted under other headings subsequently:—

Isolation Hospital : Admissions during 1946	...	...	102
Glenelg Sick Bay : Admissions during 1946	...	...	82
Glenelg Auxiliary Isolation Section : Admissions during 1946 (closed 14.9.46)	...	...	10
Beaumont Sick Bay : Admissions during 1946	...	...	31

Cleansing Station : Patients treated during 1946 ... 449
 Minor Ailments' Clinic : Attendances during 1946,
 (includes 70 evacuees) (closed February, 1946) ... 13

The isolation section of Glenelg Sick Bay was closed on September 14th.

Attendances at the Minor Ailments Clinic, which was originally opened for evacuees, gradually dropped off, and the clinic was finally closed in February.

III. Infectious Disease.

The following table sets out particulars of infectious disease occurring in the Borough during the year :—

DISEASE.	Total Cases Notified	Cases admitted to Isolation Hospital.	Total Deaths.
Measles	5	5	—
Scarlet Fever	38	33	—
Erysipelas	8	4	—
Pneumonia	12	13	12
Laryngitis	—	1	—
Whooping Cough	126	13	—
Observation	—	8	—
Tonsillitis	—	6	—
Cerebro Spinal Meningitis	—	2	—
Impetigo	—	4	—
Mumps	—	2	—
Cholecystitis	—	1	—
Erythro-œdema	—	1	—
Chicken Pox	—	4	—
Pemphigus	—	1	—
Poliomyelitis	1	1	—
Left Hemiplegia	—	1	2
Ulcerative Colitis	—	2	—
Incomplete Abortion	—	1	—
Bronchitis	—	1	1
Tuberculosis (Pulmonary)	41	1	12
„ (Non-Pulmonary)	4	—	—
Diphtheria of Wound	1	1	—
Dysentery	1	—	—
Ophthalmia Neonatorum	1	—	—
Malaria	1	—	—

IV. Diphtheria Immunisation.

The practice of sending a birthday card on each child's first birthday pointing out the value of immunisation against diphtheria was continued throughout the year. Publicity was continued, as in previous years, by means of posters, leaflets and slides shown at local cinemas.

The following table shows the number of children immunised during the year :—

	Immunisation completed during 1946.	
	Under 5 yrs.	5-15 yrs.
Number of children	501	2150
Percentage of children in each of the two age groups	22.4%	53.5%

The degree of protection afforded to the child population as a whole is clearly shown by the following figures.

There are approximately 7,310 children in the town, under the age of 15 years. Of these, according to our records, 5,960 have been immunised against diphtheria at some time since their birth. This means that 81.5 per cent of our children are protected.

The Borough Council, as a Welfare Authority, is particularly responsible for immunisation of children under 5 and, in this group, an even more favourable state of affairs exists. We have about 2,710 children under 5 in the town, and 2,472 of them are immunised. *This means that 91.2 per cent of children under school age are protected against diphtheria and it is doubtful if this figure is surpassed, or even equalled, anywhere in the country.*

Our campaign for immunisation began in 1942 and the results are shown in the following table :—

Year	Number of Cases	Number of Deaths	Remarks
1941	109	6	Immunisation Campaign started
1942	18	1	
1943	14	0	
1944	5	0	
1945	2	0	
1946	1	0	This case was not ordinary diphtheria of the throat, but infection of a wound by the diphtheria germ.

V. Maternity and Child Welfare.

INSTITUTIONAL PROVISION.—The maternity wing at Allandale was opened during the war, primarily for evacuees, but as time went on more and more local mothers were being admitted. Accordingly it was decided that a Borough Maternity Hospital should be opened, and Ashcombe House, The Drive, Milton Road was acquired for this purpose. In June, 1946, this was completed, and the staff from Allandale Maternity Unit was transferred there.

The new maternity hospital was opened by H.R.H. The Duchess of Kent on June 26th.

Normal cases are admitted to the new maternity hospital (as they formerly were to the Allandale unit), while abnormal cases are admitted to the Maternity Ward of the General Hospital.

The Council has an arrangement whereby an Obstetric Consultant can be called in by any doctor in respect of a case of abnormal pregnancy or labour.

The following table shows the admissions to maternity beds at Allandale, Ashcombe House and the General Hospital:

	Number of Beds.	Number of Patients admitted during 1946.
Allandale... ..	13	123
Ashcombe House	16	171
General Hospital Maternity Ward	4 (available to the Borough Council)	42

HEALTH VISITING.—The following table shows the work of the Health Visitors during the year :—

Infants under 1 year.			Children 1—5 yrs.	Ante-natal.			Child Life Protection Visits.
First Visits.	Other Visits.	Total.	Total Visits.	First Visits.	Other Visits.	Total.	
697	1,785	2,482	5,184	307	274	581	457

Ante-Natal Clinics were held at The Church Institute, The Boulevard, on Tuesdays at 10.30 a.m. to 11.30 a.m. and Wednesdays at 10.0 a.m. to 11.30 a.m.

Infant Welfare Clinics were held at The Church Institute, The Boulevard, on Tuesdays at 2.30 p.m. to 4.0 p.m. and Fridays at 11.0 a.m. to 12.0 noon.

Also at the Congregational Schoolroom, Moorland Road, Thursdays, 2.30 p.m. to 4.0 p.m.

Also at the Baptist Church Hall, Baytree Road, Wednesdays, 2.30 p.m. to 4.0 p.m.

The Deputy Medical Officer of Health assumed medical responsibility for the Infant Welfare Clinics from November 4th.

The following table summarises the work done during the year :—

BOULEVARD CENTRE.

INFANT WELFARE.

Total number of children who first attended during 1946 :

(a) Under 1 year	...	...	...	...	...	270
(b) Over 1 year	...	...	...	...	...	78
Total attendances	...	...	...	...	...	4,775

ANTE-NATAL.

Weston mothers (excluding 43 out of district)	...	...	...	...	...	375
Number of attendances	...	...	...	...	...	1,672

POST-NATAL	...	...	...	...	...	23
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MOORLAND ROAD CLINIC.

Children who first attended during 1946 :

(a) Under 1 year	...	...	...	...	...	137
(b) Over 1 year	...	...	...	...	...	40
Total attendances	...	...	...	...	...	3,116

BAYTREE ROAD CLINIC.

Children who first attended during 1946 :

(a) Under 1 year	...	...	...	...	...	157
(b) Over 1 year	...	...	...	...	...	54
Total attendances	...	...	...	...	...	3,299

Total number of children attending three Clinics under one year on December 31st, 1946 ... 488

Total number under 5 years on December 31st, 1946 ... 1,154

SPECIAL CLINICS AND WELFARE PROVISIONS.

Attendance of children under 5 at Dental Clinic	...	...	10
Mothers who attended Dental Clinic	...	...	125
Number of patients provided with dentures	...	...	8

DENTAL TREATMENT	Mothers.	Children.
Extractions	247	19
Fillings	54	7
Dentures : Upper	17	—
Lower	9	—
Scalings	6	—
Gum Treatment	2	—
Anæsthetics : Local	3	—
Ethyl Chlor.	—	4
N20x02	79	3
Patients seen	125	10
Repairs to dentures	1	—

Number of children referred for orthopædic X-Ray	...	6
Number of children under 5 referred to Orthopædic Clinic	...	22
Number of patients provided with orthopædic appliances	...	4
Number of patients admitted to Bath Orthopædic Hospital	...	1
Number of patients admitted to Winford Orthopædic Hospital	...	1
Number of children referred to Massage Clinic (new cases)	...	20
Number of children referred to Artificial Sunlight Clinic	...	10
Cases where special nourishment was supplied	...	—

PREVENTION OF BLINDNESS, ETC.—One case of ophthalmia neonatorum occurred during the year.

During the year 23 cases of children under five years of age were referred to the County Oculist on account of defective vision or squint.

HOME HELP SCHEME.—The Home Help scheme instituted in 1943 continued in operation, but was still greatly handicapped by a shortage of suitable women prepared to act as Home Helps.

CHILD LIFE PROTECTION—POSITION ON DEC. 31ST, 1946.

Number of Foster Mothers on Register	...	...	8
Number of Foster Mothers who have children	...	...	8
Number of Foster Children	...	...	69
Number cared for without payment	...	...	1

The following table shows the visits paid each month during 1946 in connection with Child Life Protection :—

January	...	...	...	56
February	...	...	...	66
March	...	...	...	53
April	...	...	...	32
May	...	...	...	27
June	...	...	...	22
July	...	...	...	40
August	...	...	...	44
September	...	...	...	61
October	...	...	...	24
November	...	...	...	24
December	...	...	...	8
Total	...	...	...	<u>457</u>
Average	...	...	...	38 visits per month

THE CARE OF ILLEGITIMATE CHILDREN.—The problem of illegitimacy has not been so great in Weston-super-Mare as to justify elaborate provisions being made to deal with it. The Weston-super-Mare Moral Welfare Society employ an experienced Moral Welfare worker who maintains a close liaison with the Council's Health Visitors. Whenever an expectant mother of an illegitimate child is discovered she is referred to this Society.

THE CARE OF PREMATURE INFANTS.—Arrangements have been made for doctors and midwives, in giving notification of births to the Medical Officer of Health, to include additional information in the case of a premature birth or in any case where the child weighs 5½lbs. or less. The Department of Public Health has available for loan in special cases hot water bottles, electric blanket pads, and a special cot. Home Helps are also provided as far as the shortage of suitable women permits.

VI. War-time Nurseries.

The following table shows the work of the nurseries :—

Nursery	Average Daily Attendance.
Neva Road (full time)	28
Beaconsfield Road (full time) till June 1st ...	26
The Good Shepherd Hall (part time) till April 16th	19

A re-organisation of the nurseries took place during 1946. The Good Shepherd Nursery was closed down on April 16th, and from May 6th, Neva Road Nursery catered for children up to 2½ years and Beaconsfield Road Nursery for children from 2 to 5 years. Beaconsfield Road Nursery was taken over by the Somerset County Council Education Committee as a Nursery School on June 1st.

VII. Sanitary Work.

CHIEF SANITARY INSPECTOR'S REPORT.

TO THE MAYOR, ALDERMEN AND COUNCILLORS OF
THE BOROUGH OF WESTON-SUPER-MARE.

MR. MAYOR, LADIES AND GENTLEMEN,

I have pleasure in presenting my Annual Report for the year 1946.

The termination of hostilities, as was expected, brought an increase in overcrowding and other housing difficulties. The position was still further aggravated by the increased number of cases in which tenants of unfurnished accommodation were given notice to quit, and not being protected in the same way as tenants of property controlled by the Rent and Mortgage Restriction Acts, were obliged to seek at very short notice other accommodation. In most cases this meant application to the Council for a house on the Council Estate.

Particular attention was given to the condition under which ice cream was manufactured and sold. The results of samples submitted for bacteriological examination were very unsatisfactory, and the Council appealed to the Ministry of Health and Ministry of Food for a chemical and bacteriological standard.

COURT AND STATUTORY PROCEEDINGS.

There were no Court Proceedings taken during the year.

Statutory notices served 14

HOUSING.

During the war years many difficulties were encountered in securing repairs to dwellings, and it must be noted that housing must be awarded priority in the work of reconstruction. The fact has to be faced that the majority of building labour available must be employed on new housing, and that the repairs of existing properties must still be kept at a minimum. It is confined to the remedying of urgent matters. Many reasons have been given by owners for failure to carry out repairs, but mainly these can be classified under two headings, viz. Labour and Material. A further complication has been the claims made that disrepair is due to war damage, and care has to be exercised to ensure that these matters have been dealt with fairly in all respects.

The deferring and making of Demolition Orders on worn out property for a few years will be continued until the present housing emergency has considerably lessened. The patching method can only be adopted occasionally as most of the houses referred to were worn out years ago. A policy of make do and mend will no longer maintain even tolerable conditions in these makeshift dwellings.

VERMIN INFESTATION.

The following action was taken :—

Treatments—	Primary	...	...	...	31
	Secondary	...	...	...	22
	Preventive	...	...	...	4
	to rooms	...	...	...	122

The methods of treatment used for disinfection are :—
(1) Ris ; (2) Killgercide ; (3) Zaldecide ; (4) D.D.T. ; (5) the use of fumigants in conjunction with the above preparations.

OVERCROWDING.

Housing accommodation is still heavily taxed. The Ministry of Health has made some attempt to reduce the overcrowding by means of extended powers of requisitioning, but until houses and still more houses are built, overcrowding will be always with us.

SMOKE ABATEMENT.

Four complaints were received during the year. These have been dealt with and there has been no recurrence of the trouble.

RATS AND MICE (DESTRUCTION) ACT, 1919.

The campaign against the brown rat and house mouse reached its zenith during the current year, when two major operations were directed against rats in sewers, and surface infestations according to the recommendations of the Ministry of Food.

The N.S. 13 Sewer Campaign was carried out between October and November, 1946, during which period 90 per cent of the foul sewer manholes within the Borough of Weston-super-Mare received two treatments with pre-baits and poison baits.

In conjunction with the sewer campaign, N.S. 12 Surface Infestation Control was launched, and some 11,143 premises, constituting the Borough of Weston-super-Mare, were inspected for rat and mouse infestation, free treatment being offered except in the case of business premises, where small charges were made.

All agricultural premises within the Borough of Weston-super-Mare received regular inspection, and some 22 premises were placed under contract with the Somerset War Agricultural Executive Committee for rat treatment over a period of twelve months.

Statistics revealed that as a result of the N.S. 13 Sewer Campaign, an approximate total of 2,500 rats were destroyed, infestation being reduced to a very low level.

The N.S. 12 Surface Infestation Control Campaign Survey provided 585 complaints of rat and mice infestations, of which 499 have since been dealt with.

FACTORIES, SHOPS, ETC.

Factory inspection and hygiene has progressed during recent years, and owners of factories have always carried out any sanitary improvements which have been recommended by the Health Officers. Complete co-operation exists between H.M. Inspector of Factories for this area, and this Department.

The following table shows the work carried out during the year :—

1.—INSPECTIONS for purposes of provisions as to health (including inspections made by Sanitary Inspectors).

Premises	Number on Register	Number of	
		Inspections	Written notices
(i) Factories in which Sections 1, 2, 3 4 and 6 are to be enforced by Local Authorities	258	190	77
(ii) Factories not included in (i) to which Section 7 applies			
(a) Subject to the Local Authorities (Transfer of Enforcement) Order, 1938	—	—	—
(b) Others	—	—	—
(iii) Other Premises under the Act (excluding out-workers' premises)	—	—	—
TOTAL ...	258	190	77

2.—Cases in which DEFECTS were found.

Particulars	Number of cases in which defects were found	
	Found	Remedied
Want of cleanliness (S.1)	74	74
Overcrowding (S.2.)	—	—
Unreasonable temperature (S.3)	—	—
Inadequate ventilation (S.4)	6	2
Ineffective drainage of floors (S.6)	—	—
Sanitary Conveniences (S.7)		
(a) insufficient	1	—
(b) Unsuitable or defective	2	2
(c) Not separate for sexes	—	—
Other offences (not including offences relating to Homework)	4	2
TOTAL ...	87	80

OUTWORK.—Sections 110 and 111 of the Factories Act, 1937.

Nature of Work	No. of out-workers in August list required by Sect. 110 (1) (c)	Section 111 Notices served
Wearing { Making, etc.	8	7
apparel { Cleaning and washing	—	—
Household linen	—	—
Lace, lace curtains and nets	—	—
Curtains and furniture hangings	—	—
Furniture and upholstery	—	—
Electro-plate	—	—
File making	—	—
Brass and brass articles	—	—
Fur pulling	—	—
Iron and steel cables and chains	—	—
Iron and steel anchors and grapnels	—	—
Cart gear	—	—
Locks, latches and keys	—	—
Umbrellas, etc.	—	—
Artificial flowers	—	—
Nets, other than wire nets	—	—
Tents	—	—
Sacks	—	—
Racquet and tennis balls	—	—
Paper bags	—	—
The making of boxes or other receptacles or parts thereof made wholly or partially of paper	—	—
Brush making	—	—
Pea picking	—	—
Feather sorting	—	—
Carding, etc., of buttons, etc.	—	—
Stuffed toys	—	—
Basket making	—	—
Chocolates and sweetmeats	—	—
Cosaques, Christmas crackers, Christmas stockings, etc.	—	—
Textile weaving	—	—
Lampshades	—	—
TOTAL ...	8	7

SHOPS ACT, 1934.

Sanitary conveniences provided ...	3
Washing facilities provided	2

HOLIDAY CAMPING GROUNDS.

The number of camps licensed during the year was eleven.

OFFENSIVE TRADES.

There are nine fish friers in the Borough. A gut scrapers' business is carried on at the Public Abattoir and a salvage factory is established at Rickett's Lane, Worle.

SUMMARY OF VISITS

by Sanitary Inspector's Staff (not including Health Visitors).

Total number of inspections and visits ...	...	...	6,448
Nuisances or complaints ...	...	...	616
Work ordered ...	...	...	784
Work in progress ...	...	...	204
Drainage tests visits :—			
Smoke tests at existing buildings ...	...	...	17
Water tests at existing buildings ...	...	...	14
Inspection of concrete in connection with drains ...	...	...	13
Dwelling houses :—			
Number inspected under Public Health, 1936 ...	...	...	398
Number of inspections made for the purpose ...	...	...	881
Houses inspected and recorded under the Housing Consolidated Regulation, 1936 ...	...	...	133
Number of inspections made for the purpose ...	...	...	153
Number of housing inspections (<i>re</i> miscellaneous matters) ...	...	...	178
Housing inspections <i>re</i> infectious diseases ...	...	...	94
Number of houses inspected <i>re</i> vermin ...	...	...	31
Number of houses re-inspected <i>re</i> vermin ...	...	...	100
Number of houses inspected <i>re</i> overcrowding ...	...	...	35
Number of houses re-inspected <i>re</i> overcrowding ...	...	...	70
Number of re-inspections after service of notices P.H.A., 1936 ...	...	...	2
Interviews with agents, owners, contractors, etc. ...	...	...	434
Factory inspection—Power ...	...	...	107
Non-power ...	...	...	25
Bakehouses ...	...	...	79
Shops Act inspections ...	...	...	65
Cowsheds and farm inspections ...	...	...	396
Dairies and milkshops inspections ...	...	...	52
Ice cream shops and premises inspected ...	...	...	96
Butchers' shops and Abattoir inspections ...	...	...	634
Food shops and food premises inspections ...	...	...	522
Offensive trades inspections ...	...	...	30
Tents, vans and sheds inspections ...	...	...	313
Inspections <i>re</i> manure pits ...	...	...	11
Inspections of premises where animals are kept ...	...	...	5
Inspections of public and private refuse tips ...	...	...	19
Refuse bin inspections ...	...	...	69

Smoke abatement inspections	...	...	...	...	4
Public buildings inspections (including licensed amusement premises)	...	...	...	...	15
Rat and mice infestation inspections	...	...	...	...	12,043
Cesspool inspections	...	...	...	...	20
Miscellaneous visits	...	...	...	...	694
Petrol store inspections	...	...	...	...	67
Milk Samples taken	...	...	...	...	240
Water Samples taken	...	...	...	...	20
Swimming Bath Samples taken	...	...	...	...	13

WORK DONE.

Houses closed voluntarily	...	...	...	...	2
Houses repaired (Housing and Public Health Acts)	...	...	...	...	108
Houses repaired informally under Housing Acts	...	...	...	...	104
Houses cleansed and decorated	...	...	...	...	10
Houses repaired formally under the Housing Acts	...	...	...	...	4
Rooms repaired	...	...	...	...	34
Roofs repaired or stripped and retiled or reslated	...	...	...	...	53
Floors relaid or repaired	...	...	...	...	102
Skirtings, etc., renewed or repaired	...	...	...	...	7
Fire grates renewed or repaired	...	...	...	...	15
Doors repaired or new ones fixed	...	...	...	...	15
Stairs renewed or repaired	...	...	...	...	2
Windows renewed or repaired	...	...	...	...	28
Ventilations and/or lighting improved	...	...	...	...	6
Plastering of walls and/or ceilings repaired or stripped	...	...	...	...	29
Rain water spouting or guttering repaired or renewed	...	...	...	...	31
Rain water cisterns repaired, abolished or new fixed	...	...	...	...	8
Walls pointed and repaired or rendered	...	...	...	...	16
External plaster repaired or re-rendered	...	...	...	...	7
Chimney stacks and flues repaired or rebuilt	...	...	...	...	12
Earth banks removed from houses	...	...	...	...	1
Floor timbers treated for dry rot	...	...	...	...	101
Sanitary sinks provided	...	...	...	...	22
Yards paved, repaired or relaid	...	...	...	...	3
Tenants required to amend conditions	...	...	...	...	31
Houses, etc., treated for primary infestation or for precautionary purposes	...	...	...	...	35
Rooms, etc., treated for primary infestation or for precautionary purposes	...	...	...	...	122
Refuse bins provided	...	...	...	...	34

Factory and Workshops : See page 17 Factory and Workshops Report.

Dairies and Cowsheds :—

New Registrations	...	...	...	...	4
Floors and channels relaid or improved	...	...	...	...	1
Sanitary and structural conditions improved	...	...	...	...	2

Trade premises :—Sanitary conditions improved	...	2
Accumulations of manure or offensive matter removed		3
Animals and poultry :—Nuisances abated	...	4
Rats and mice infestation :—Premises dealt with	...	607

Drainage :—

Drains relaid at existing houses	...	...	16
Drains cleared and cleansed or repaired	...	...	56
Drains trapped and properly ventilated	...	...	7
Premises supplied with additional drainage	...	...	10
Additional drains provided	...	...	13
New drain inspection chambers provided	...	...	29
Premises supplied with additional water closets	...	...	4
Additional water closets provided	...	...	4
Water closets or urinals repaired or reconstructed	...	...	24
New water closet pedestals fixed	...	...	87
New water closet flushing cisterns fixed	...	...	9
W.C. cisterns repaired	...	...	19
New baths fixed	...	...	—
New lavatory basins fixed	...	...	62
Soil pipes and drain ventilators repaired	...	...	9
Soil pipes and drain ventilators fixed	...	...	2
Waste pipes fixed, repaired or reconstructed	...	...	42
Nuisances from overflowing cesspools abated	...	...	7
Accumulations of rubbish removed	...	...	23
Ditches and back lanes cleansed	...	...	3

Smoke or fumes :—Nuisances abated or complaints dealt with	...	...	...	4
Tents and Vans :—Nuisances abated	...	...	...	2
Swine kept in contravention	...	...	...	2
Cafes :—Insufficient w.c. accommodation	...	...	...	2
Floors relaid	...	...	...	1
Static water tanks emptied	...	...	...	2

Infectious Disease Disinfections, etc. :—	Rooms.	Articles.
Tuberculosis	25	346
Diphtheria	—	5
Scarlet Fever	36	300
Non-notifiable	40	651
Scabies	—	31
Meningitis	1	9
Poliomyelitis	1	20
Erysipelas	1	9
Vermin	52	30
	156	1,401

DAIRIES, COWSHEDS AND MILKSHOPS.

240 Samples of milk were submitted to the County Bacteriologist, The results have been very helpful in dealing with correct methods for handling milk, and served a very educational benefit to farmers, etc.

PARTICULARS OF REGISTER.

Number of producers on the Register	24
Number of distributors, divided as follows :— (including 11 who trade from outside the Borough)	
A. Distributors only	45
B. Distributors who are also producers	14
(A producer is only included as a distributor if he definitely makes a business of selling his milk by retail to individual customers.)	
Number of licences given to Graded Milk Distributors :—	
Supplementary Certified Tuberculin Tested ...	3
Supplementary Pasteurized	5
There are two accredited milk producers in the district.	

For the purpose of control, the following samples were submitted to the County Bacteriologist for his report :—

Herd milk for the presence of T.B.	55
(T.B. not present 53, Positive 2)	
Pasteurized (satisfactory 3)	3
Bacterial examination (good 123, fair 27, poor 8, Very poor 5, bad 4, very bad 7)	174

MEAT AND FOOD CONTROL.

The number of premises on the register for the preparation of pickled, preserved, etc. meats is 44.

PUBLIC ABATTOIR.

Since 1939 Weston-super-Mare has been the slaughtering centre for home killed meat consumed in the Borough and other areas, namely :—Axbridge, Glastonbury, Wells, Street, Bridgwater, Highbridge, Burnham-on-Sea, Nailsea, Clevedon, and Portishead. The normal routine inspection of all meat slaughtered has been carefully carried out and no less than 119 tons of meat were condemned as unfit for human consumption. The practice of notifying the Regional Veterinary Officer of cases of T.B. in calves still continues, and several cases have occurred where the following up of these cases has resulted in the mother of these calves being sent in to the Abattoir for slaughter, and invariably been found to be suffering from Generalised T.B.

The Representative of the Ministry of Food and Agriculture and Fisheries has expressed from time to time the helpful co-operation received from your food officials.

Special attention has been given to meat handling arrangements and transport, and many improvements have resulted from our representations.

The Public Abattoir has again done yeoman service, apart from inspecting meat for Weston-super-Mare, population 32,000, they have also inspected meat for a population of nearly 250,000 people.

The following salvage was handed on to the Ministry of Food's Agents for residual recovery purposes :—

		Tons.	cwt.	qrs.	lbs.
Condemned meat ...	...	119	8	0	1
Non-edible offals, etc. ...	...	260	10	3	12
TOTAL ...		379	18	3	13

ANIMALS KILLED AT THE PUBLIC ABATTOIRS.

		1939.	1940.	1941.	1942.	1943.	1944.	1945.	1946.
Pigs ...	...	3,653	6,021	4,875	1,026	630	445	1,062	560
Sheep	...	12,919	47,238	46,089	50,384	41,115	45,626	40,077	41,855
Calves	...	857	3,448	5,977	7,839	10,336	12,143	8,607	7,960
Beasts	...	1,365	7,252	10,215	7,856	10,071	10,814	9,724	9,106

Difference from the year 1945 :—

Cattle.	Calves.	Sheep.	Pigs.	All Animals.
—618	—647	+1,778	—502	+11

The income from slaughtering charges, tolls and rentals was as follows :—

1940	...	...	...	...	£3,718 17 0
1941	...	...	...	...	£4,107 9 2
1942	...	...	...	...	£3,859 11 4
1943	...	...	...	...	£4,489 11 1
1944	...	...	...	...	£4,789 11 2
1945	...	...	...	...	£4,277 4 11
1946, including rentals and tolls as					
below	...	...	...	...	£4,343 0 6
Rentals Abattoir	...	...	...	...	£217 0 0
Rentals Cattle Market	...	...	...	...	£195 0 0
Market Tolls	...	...	...	...	£262 9 11

CARCASES INSPECTED AND CONDEMNED.

	Cattle, including Cows.	Calves.	Sheep and Lambs.	Pigs.
Number killed	9,106	7,960	41,855	560
Number inspected	9,106	7,960	41,855	560
ALL DISEASES EXCEPT TUBERCULOSIS.				
Whole carcasses condemned	45	7	55	2
Carcasses of which some part or organ was condemned	3,055	65	3,695	72
Percentage of the number inspected affected with disease other than tuber- culosis	34·0%	·9%	8·0%	13·2%
TUBERCULOSIS ONLY.				
Whole carcasses condemned	234	3	—	1
Carcasses of which some part or organ was condemned	3,068	3	—	119
Percentage of the number inspected affected with tuberculosis	36·2%	·07%	—	21·2%

1946. DISEASED OR INJURED MEAT CONDEMNED AT THE ABATTOIR.

	Tuberculosis Cattle. Total..	Cirrhosis (Distoma Hepaticum) Cattle. Total.	Fever or Emaciation	Pericarditis	Abscesses.	Pneumonia.	John's Disease & Emaciation	Angioma.	Actinomycosis.	Cysts	Pseudo T.B.	Injury and Nephritis.	Sceptacemia	Odeamia.	Red Water Fever	TOTAL.
CATTLE.—Carcase and all offal	234	—	12	—	2	—	5	—	—	—	—	—	12	14	—	279
Quarters	102	—	—	—	—	—	—	—	—	—	—	53	—	1	2	158
Heads and Tongues	719	—	—	—	55	—	—	—	55	—	—	—	—	—	—	829
Lungs and Hearts	915	—	—	—	120	80	—	—	—	—	—	—	71	—	—	1,186
Livers	288	1,028	—	—	301	—	—	790	—	148	—	—	—	—	—	2,555
Guts	547	—	27	—	80	—	100	—	—	—	—	—	—	—	—	754
Stomachs	282	—	47	—	52	—	—	—	—	—	—	—	—	—	—	381
Skirtings	215	—	—	—	45	—	—	—	—	—	—	—	—	—	—	260
CALF.—Carcases	3	—	1	—	1	—	—	—	—	—	—	—	1	4	—	10
Quarters	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	3
Livers	—	—	3	—	5	—	—	—	—	—	—	—	—	—	—	8
Plucks	—	—	2	—	12	—	—	—	—	—	—	—	10	—	—	24
Guts	3	—	27	—	—	—	—	—	—	—	—	3	—	—	—	30
Heads	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
Pigs.—Carcase and offal	1	—	2	—	—	—	—	—	—	—	—	—	—	—	—	3
Heads	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43
Plucks	20	—	—	16	—	—	—	—	—	6	—	—	—	—	—	42
Guts	56	—	32	—	—	—	—	—	—	—	—	—	—	—	—	88
Livers	—	17	—	—	—	—	—	—	—	—	—	—	—	—	—	17
Legs	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	1
SHEEP.—Carcases	—	—	22	—	—	—	—	—	—	137	—	—	7	26	—	55
Livers	—	3,076	—	—	—	—	—	—	—	—	—	—	—	—	—	3,213
Plucks	—	—	—	—	123	53	—	—	—	—	—	—	—	—	—	176
Legs	—	—	—	—	6	—	—	—	—	—	—	—	—	—	—	6
Quarters	—	—	—	—	4	—	—	—	—	—	—	—	6	—	—	10
Guts	—	—	228	—	—	—	—	—	—	—	—	—	—	62	—	290

DISEASED MEAT AND OTHER FOODS.

The total weight of diseased, unsound or injured meat and organs condemned was :—

Tuberculosis :—

	Tons.	cwt.	qrs.	lbs.	Tons.	cwt.	qrs.	lbs.
Beef and organs, including 234 carcasses and 102 quarters	88	13	1	18				
Pigs and organs, including 1 carcase		16	0	18				
Veal , 3 carcasses		1	3	19				
Total weight of tuber- culous meat					89	11	1	27
Non-Tuberculous Meat :—								
Beef and organs	23	15	3	18				
Pigs and organs		5	1	16				
Sheep and Lambs	5	7	1	10				
Veal		7	3	14				
Total weight of non- tuberculous meat					29	16	2	2
Total weight of all con- demned meat					119	8	0	1

UN SOUND FOODS CONDEMNED IN THE TOWN.

	Tons	cwts.	qrs.	lbs.
Meat. —Beef, Pork, Lamb or Mutton	0	1	3	12
Fish. —various	0	10	1	14
Bacon	0	5	0	3
	0	17	1	1

Canned Goods.

Meat, various	1,245	cans
Fish	196	„
Vegetables	368	„
Milk	435	„
Soups	31	„
Fruit	80	„
Jams	27	„

Meat Pies	...	...	...	...	91
Crumpets	...	...	...	...	873
Fish Cakes	...	...	...	...	208
Pasties	...	...	...	...	57
Sausage Rolls	...	...	...	...	245
Dried Egg	...	...	...	...	1 pkt.
Cereals (various)	...	...	...	...	7 pkts.
Tea	...	...	...	...	17 „
Sausages	...	...	...	...	88 lbs.
Sugar	...	...	...	...	1 „
Fruit	...	...	...	...	276 „
Macaroni	...	...	...	...	56 „
Chocolates	...	...	...	...	191 „
Jellies	...	...	...	...	14 „
Cheese	...	...	...	...	36 „
Puddings...	...	...	...	...	136 „
Butter	...	...	...	...	$\frac{1}{2}$ lb.
Biscuits	...	...	...	...	15 lbs.
Sweets	...	...	...	...	106 „
Flour	...	...	...	...	1 cwt.
Jams	...	...	...	...	61 jars
Herrings	...	...	...	...	2 „
Pickles	...	...	...	...	2 „
Cauliflowers	...	...	...	...	17 $\frac{1}{2}$ cwt.
Horlicks	...	...	...	...	2 bottles

FOOD AND DRUGS ACTS.

The number of samples submitted for analysis by the County was 64. Number not found up to standard was 4. During the year 52 samples of food were taken informally. The results are as follows :—

Samples				Genuine		Adulterated.	
Formal	{	37 Milk	...	37	...	—	—
		3 Margarine	...	3	...	—	—
		4 Lard	...	4	...	—	—
		1 Vinegar	...	1	...	—	—
		2 Whiskey	...	2	...	—	—
		1 Gin	...	1	...	—	—
		1 Cider	...	1	...	—	—
		1 Cheese	...	1	...	—	—
		1 Fish Paste	...	1	...	—	—
		1 Dried Milk	...	1	...	—	—
		1 Jam	...	1	...	—	—
		1 Cake	...	1	...	—	—
		1 Cordial	...	1	...	—	—
		5 Butter	...	2	...	3	3
		4 Sausages	...	3	...	1	1

Informal	{	37 Sausages	30	...	7
		2 Fish Cakes	2	...	—
		1 Soup	1	...	—
		1 Gravy Powder	1	...	—
		1 Golden Raising			
		Powder	1	...	—
		1 Bun Powder	1	...	—
		1 Mustard	1	...	—
		1 Milk Pudding			
		Mixture	1	...	—
		1 Epson Salts	1	...	—
		1 Savora	1	...	—
		1 Ground Ginger	1	...	—
		1 Malt Vinegar	1	...	—
		2 Flour	2	...	—
		1 Baking Powder	1	...	—
		24 Ice Creams	—	...	—

I have pleasure in expressing my sincerest thanks to the Chairman and Members of the Health Committee for the help they have given me, also to Dr. Eastwood, Medical Officer of Health, who is ever ready to give assistance and advice, and to the staff I extend my sincere thanks for their continued loyalty and good service, without which my task would have been arduous.

I am, Your obedient Servant,

I. A. STEPHENSON,

Chief Sanitary Inspector.

VIII. Meteorology.

The following table summarises the meteorological observations for the year 1946. The observations are taken at Clarence Park and the Town Hall.

Monthly Results of Climatological Observations, 1946.

1946. MONTH.	AIR TEMPERATURES.							Mean Relative Humidity (9 a.m.).	Mean Amount of Cloud (9 a.m.).	RADIATION. Min. on Grass (means).	RAIN.		SUN. Number of Hours.	Mean Barometer Reading (9 a.m.).
	MEANS (Degrees).					EXTREMES.					Amount. Inches.	No. of Days with .04 ins. or more.		
	9 a.m.	Min.	Max.	Range.	Mean.	Min.	Max.							
January	38.3	33.7	44.3	10.6	39.0	21.1°	55.1°	6.6	32.3	2.84	11	64.9	30.089	
February	44.1	40.5	48.3	7.8	44.4	22.4°	53.3°	6.6	38.6	2.50	13	69.3	30.031	
March	42.9	36.2	50.0	13.8	43.1	24.0°	68.0°	5.1	33.6	.80	5	114.6	29.980	
April	52.1	43.1	59.3	16.2	51.2	34.2°	74.0°	3.9	39.1	2.11	9	217.2	30.090	
May	52.1	45.0	60.0	15.0	52.5	35.9°	68.8°	5.3	42.0	4.94	12	190.0	29.904	
June	57.7	50.3	61.8	11.5	56.0	45.7°	67.9°	5.7	47.7*	2.96	12	173.6	29.935	
July	62.9	54.4	68.5	14.1	61.5	50.3°	76.8°	5.0	51.9	2.28	8	205.8	30.002	
August	60.3	54.0	65.8	11.8	59.9	45.1°	71.0°	6.6	50.8	5.69	18	149.1	29.776	
September	59.2	53.6	65.1	11.5	59.3	47.0°	78.6°	5.3	50.6	3.26	14	112.4	29.872	
October	52.4	47.4	57.5	10.1	52.5	31.6°	68.9°	6.1	44.3	1.14	9	78.4	30.063	
November	49.7	45.3	53.5	8.2	49.4	38.2°	65.4°	6.6	40.6	5.11	19	55.6	29.723	
December	40.6	35.0	45.5	10.5	40.3	21.7°	52.1°	4.3	31.5	3.16	14	77.0	29.931	
Means and Totals	51.0	44.9	56.6	11.7	50.7	34.8°	66.7°	5.5	41.9	35.89	144	1,507.9	29.949	

*29 days only.

